



NR 445 Technical Advisory Group

Regulating Asphalt Fume

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Bureau of Air Management



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Proposal to Regulate Asphalt Fumes in NR 445

- ◆ Members of the Wisconsin Transportation Builders Association (WTBA), Wisconsin Asphalt Pavement Association (WAPA), National Asphalt Pavement Association (NAPA) & the Asphalt Institute (AI) expressed concern that establishing an emission standard based on an off-site impact from fumes would be problematic for the following reasons:
 - ◆ different characteristics of asphalt fumes coming from a variety of sources using different crude stock; and
 - ◆ demonstrating compliance using traditional testing methods would be difficult, if not impossible.



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Proposal to Regulate Asphalt Fumes in NR 445

- ◆ The Department has evaluated information:
 - ◆ provided by WTBA, WAPA, NAPA & AI;
 - ◆ obtained during an on-site visit to a large asphalt plant; &
 - ◆ in the Dec. 2000 US EPA Hot Mix Asphalt Plants Emission Assessment Report.
- ◆ After evaluating the information & considering the quantification issues the Department has determined that regulating asphalt fume, in addition to regulating the specific chemicals & compounds that make up the fume, would provide for little additional environmental benefit.



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Revised Proposal (October 2001)

- ◆ Emissions of asphalt fumes would be regulated as follows under the current proposal:
 - ◆ use the 51 specific standards for 35 chemicals and compounds which make up the asphalt fume;
 - ◆ standards apply to sources of asphalt production & processing
- ◆ Remove asphalt fume from the list of proposed HAPs for NR 445 and NR 438.



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Additional Details of Current Proposal

- ◆ Chemicals and compounds associated with the production of asphalt
 - ◆ see table
- ◆ Sources Subject to the Standard at an Asphalt Plant
 - ◆ Mixing (batch, drum mix)
 - ◆ Conveying (silos)
 - ◆ Load Out (truck loading)
 - ◆ Storage (tanks)



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Additional Details of Current Proposal

- ◆ Effective dates, compliance deadlines & demonstrations would be consistent with all other sources
 - ◆ new and modified source at start up;
 - ◆ existing sources along compliance schedule;
 - ◆ all methods will be available for quantifying emissions & demonstrating compliance
 - ◆ emission factors, stack test, mass balance, etc
 - ◆ dispersion modeling



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NR 438 Reporting Thresholds

- ◆ Set consistent with all other hazardous air pollutants.
- ◆ Reporting will be required for any chemical or compound that is emitted above the proposed NR 438 values on an annual basis.